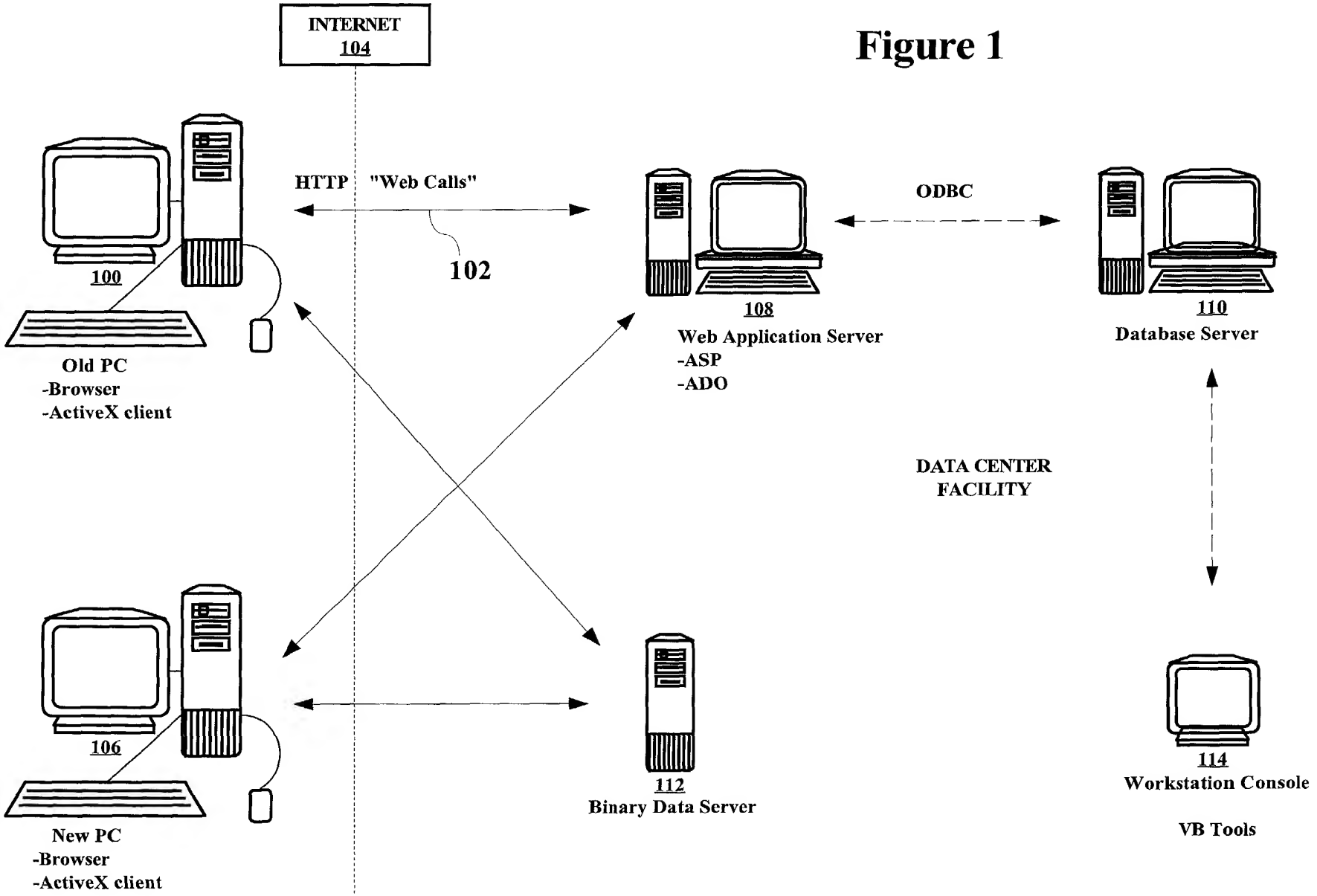
T00T50 "TT0259860

Figure 1



FOOTSO" FP02S860

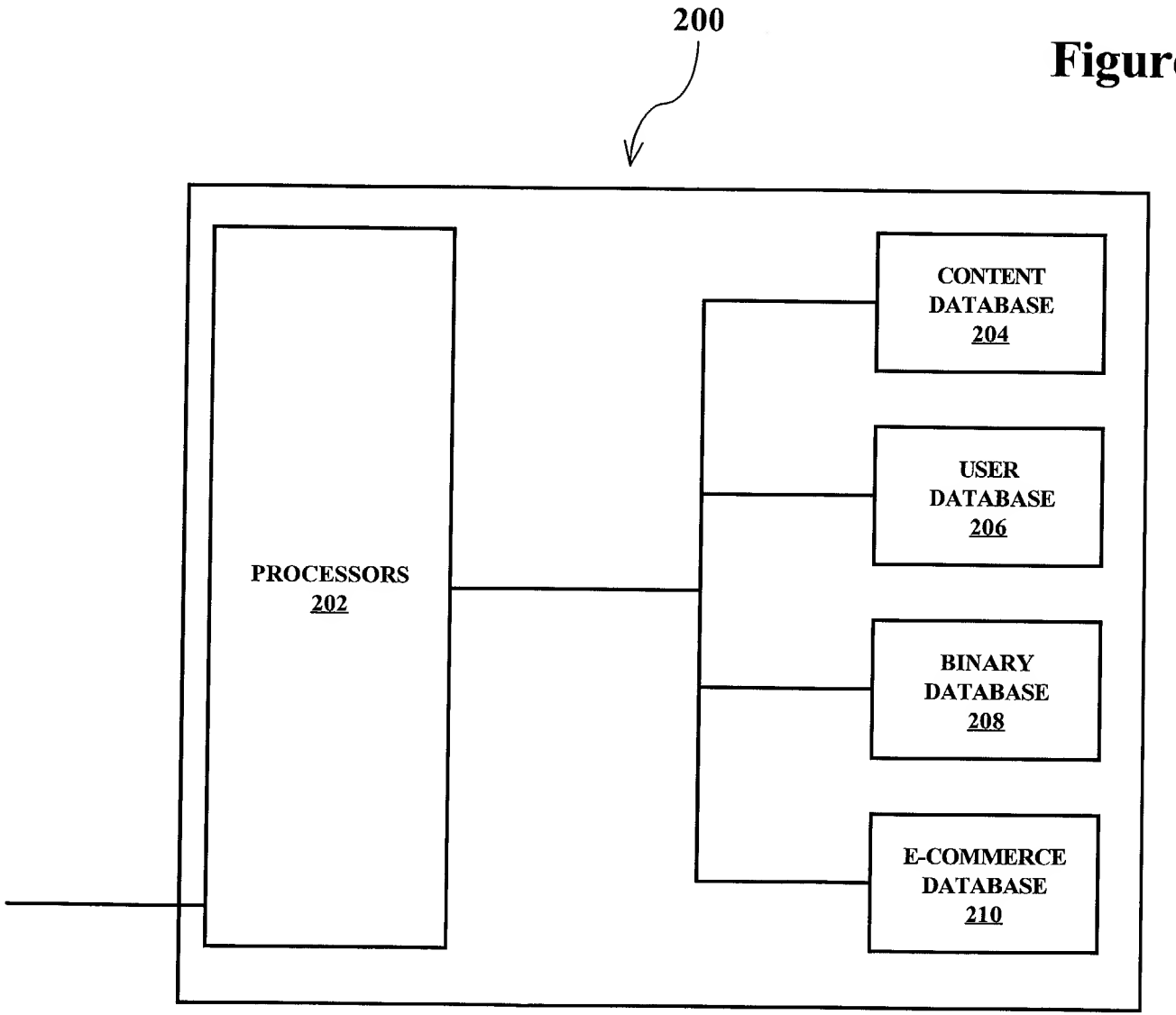
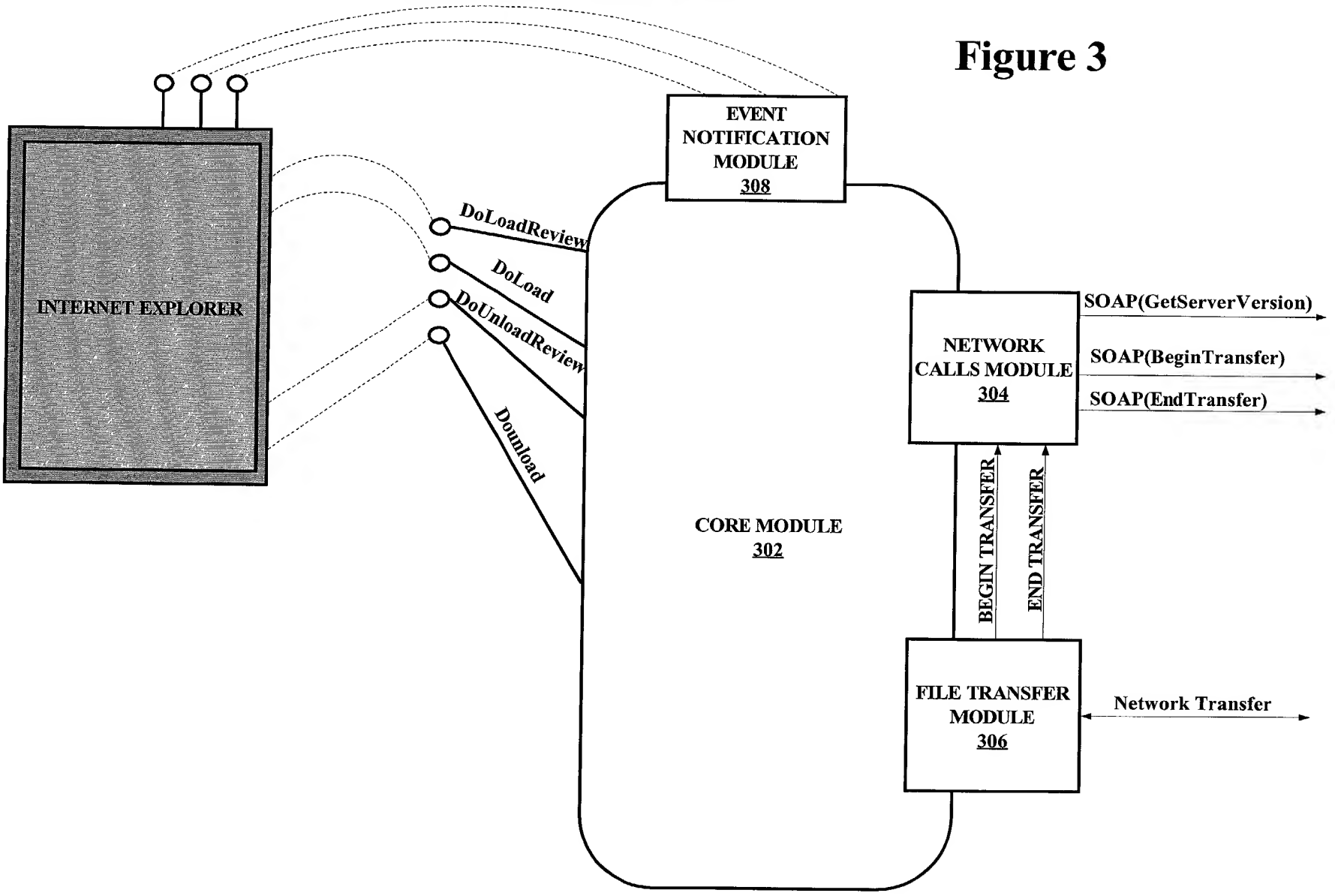


Figure 2

FOOTSO"TT02596D

Figure 3



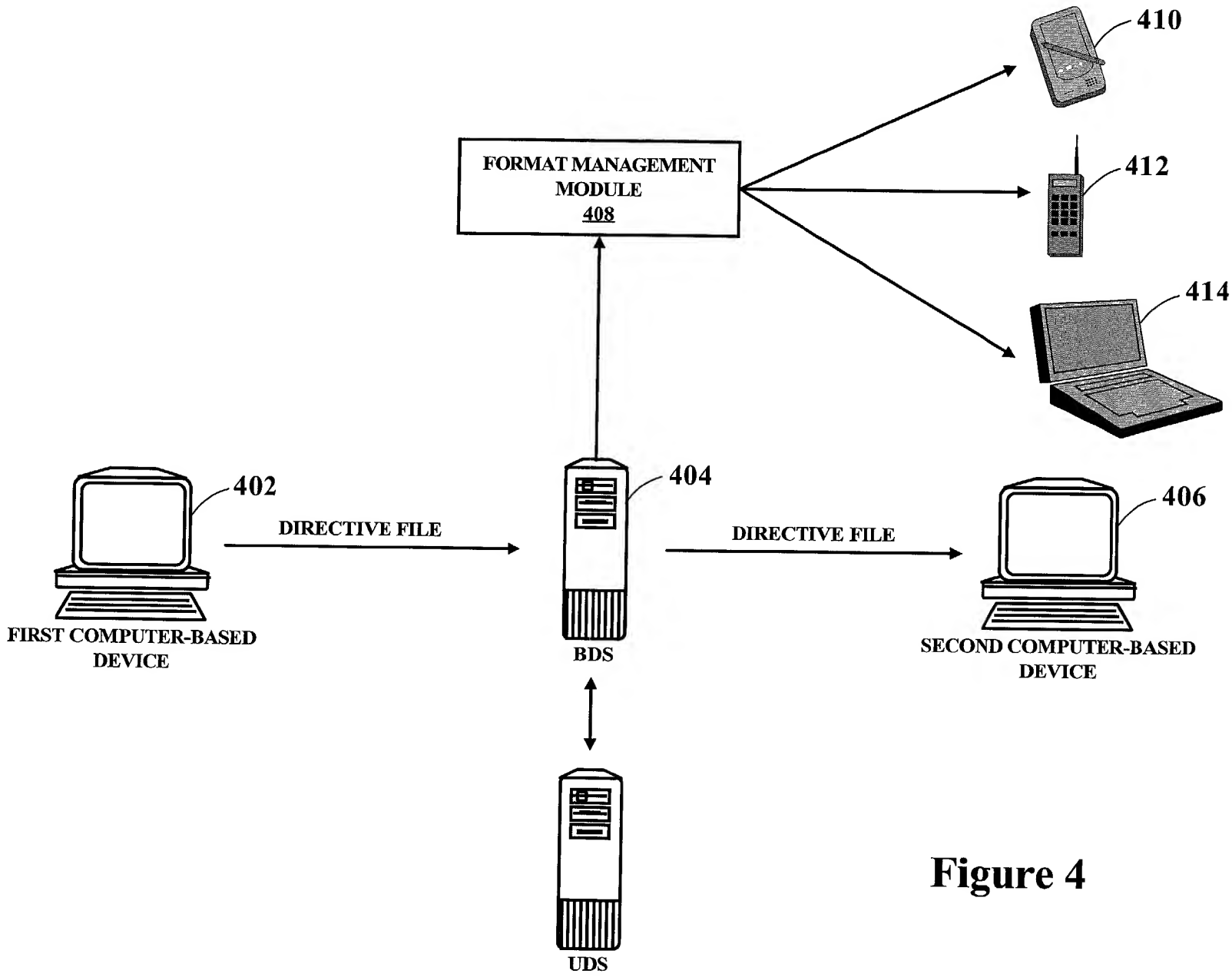

410
FORMAT MANAGEMENT MODULE
408
412
414
402
DIRECTIVE FILE
404
DIRECTIVE FILE
406
FIRST COMPUTER-BASED DEVICE
BDS
SECOND COMPUTER-BASED DEVICE
UDS

Figure 4

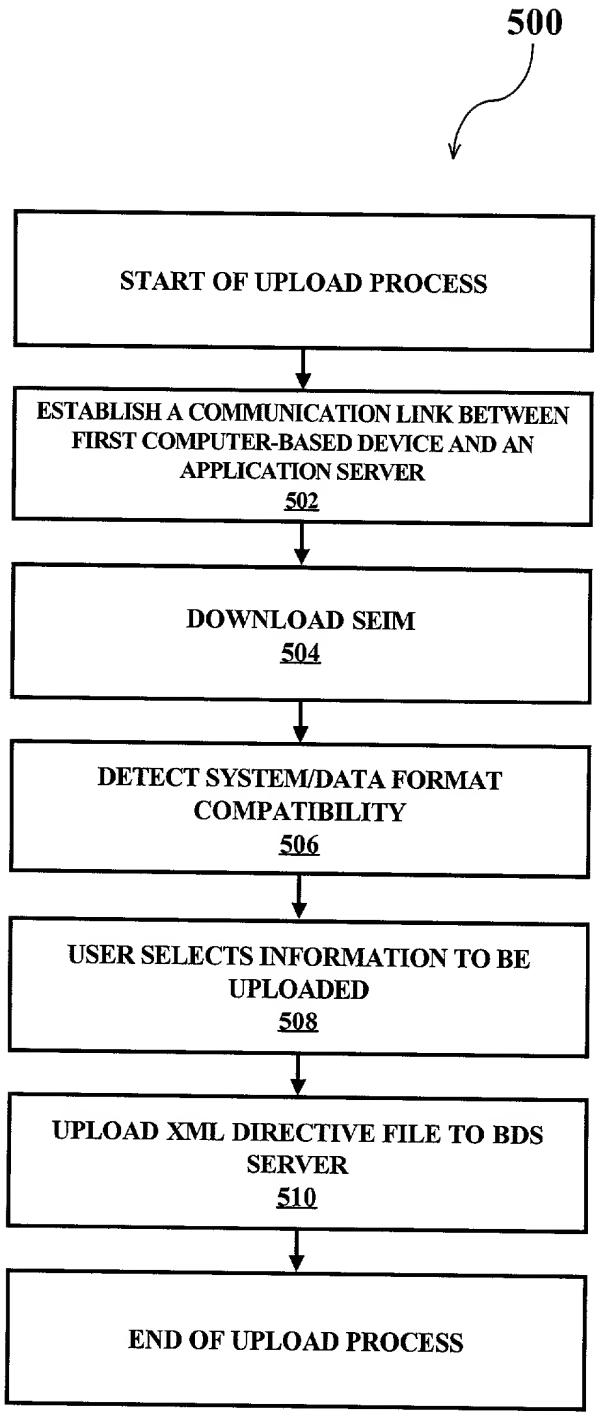

500
START OF UPLOAD PROCESS
ESTABLISH A COMMUNICATION LINK BETWEEN FIRST COMPUTER-BASED DEVICE AND AN APPLICATION SERVER
502
DOWNLOAD SEIM
504
DETECT SYSTEM/DATA FORMAT COMPATIBILITY
506
USER SELECTS INFORMATION TO BE UPLOADED
508
UPLOAD XML DIRECTIVE FILE TO BDS SERVER
510
END OF UPLOAD PROCESS

Figure 5

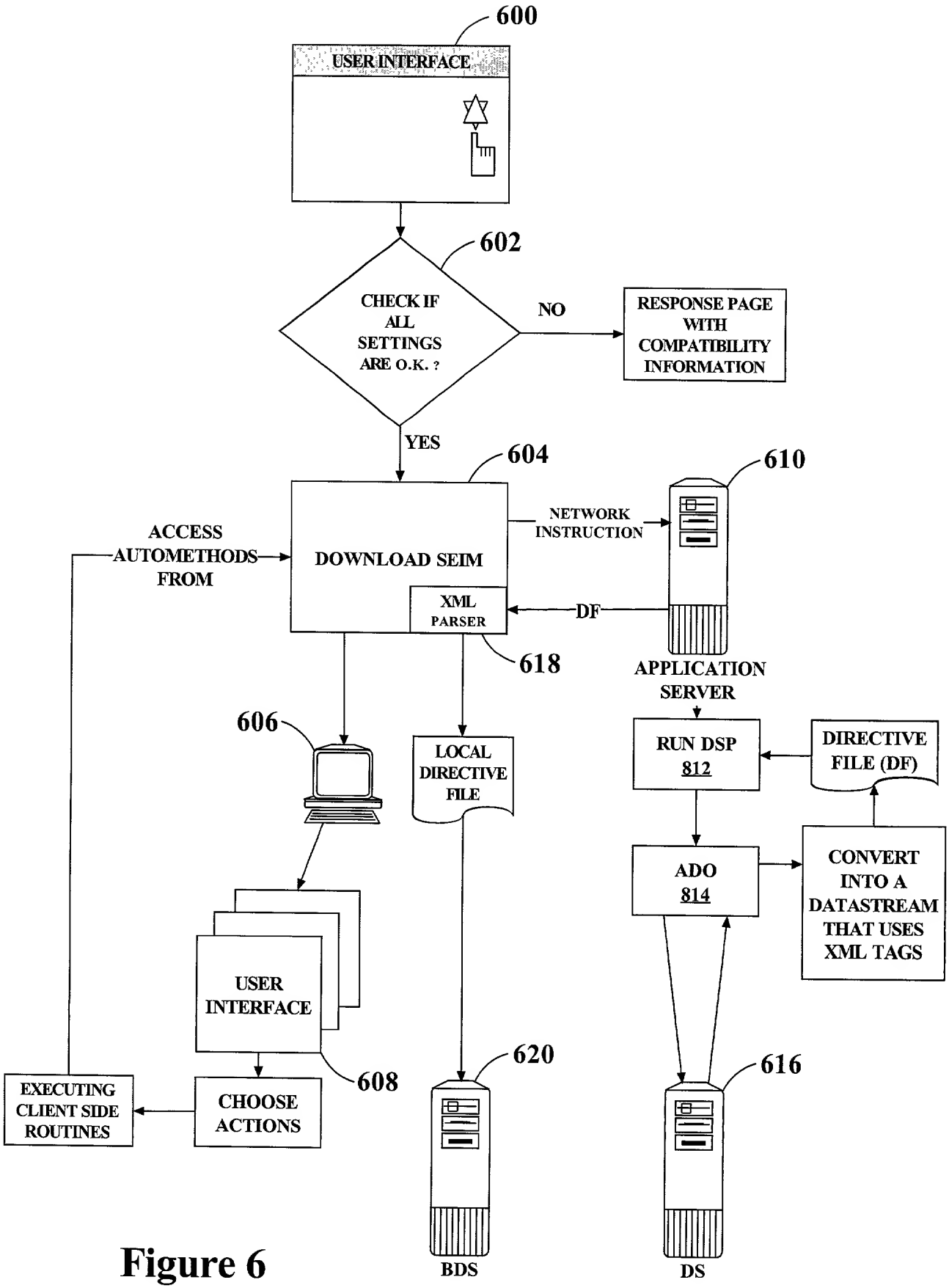

600
USER INTERFACE
602
CHECK IF ALL SETTINGS ARE O.K. ?
NO
RESPONSE PAGE WITH COMPATIBILITY INFORMATION
YES
604
610
ACCESS AUTOMETHODS FROM
DOWNLOAD SEIM
NETWORK INSTRUCTION
XML PARSER
DF
618
APPLICATION SERVER
606
LOCAL DIRECTIVE FILE
RUN DSP 812
DIRECTIVE FILE (DF)
ADO 814
CONVERT INTO A DATASTREAM THAT USES XML TAGS
USER INTERFACE
608
620
616
EXECUTING CLIENT SIDE ROUTINES
CHOOSE ACTIONS
BDS
DS

Figure 6

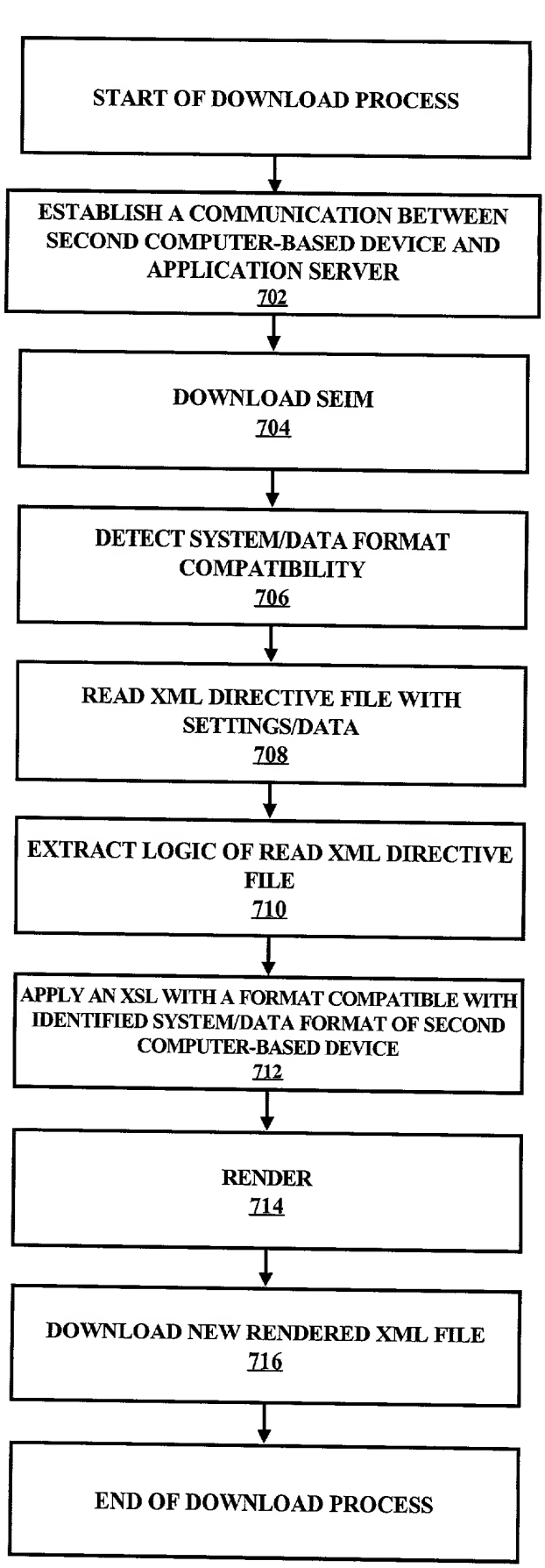

700
START OF DOWNLOAD PROCESS
ESTABLISH A COMMUNICATION BETWEEN SECOND COMPUTER-BASED DEVICE AND APPLICATION SERVER
702
DOWNLOAD SEIM
704
DETECT SYSTEM/DATA FORMAT COMPATIBILITY
706
READ XML DIRECTIVE FILE WITH SETTINGS/DATA
708
EXTRACT LOGIC OF READ XML DIRECTIVE FILE
710
APPLY AN XSL WITH A FORMAT COMPATIBLE WITH IDENTIFIED SYSTEM/DATA FORMAT OF SECOND COMPUTER-BASED DEVICE
712
RENDER
714
DOWNLOAD NEW RENDERED XML FILE
716
END OF DOWNLOAD PROCESS

Figure 7

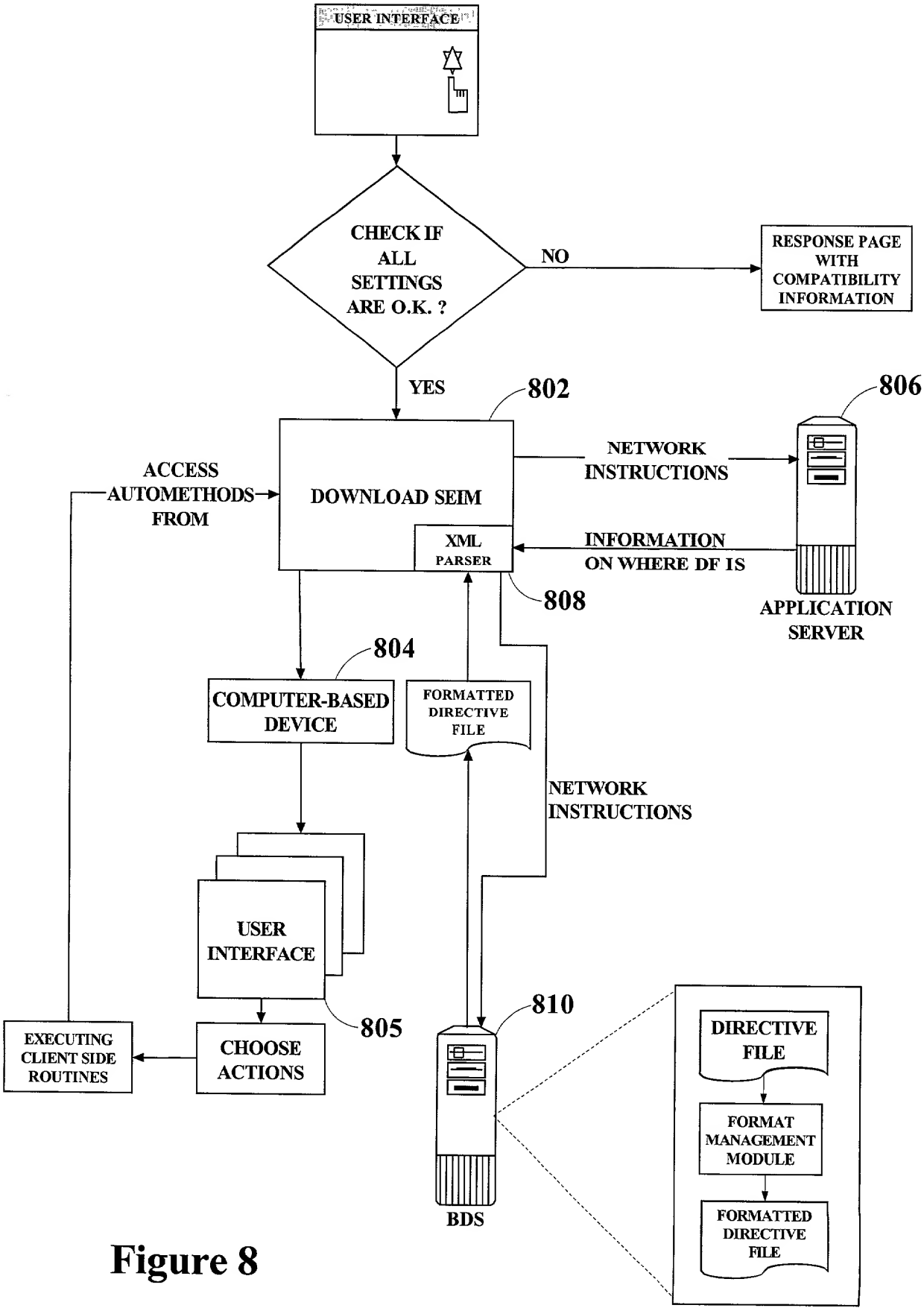

USER INTERFACE
CHECK IF ALL SETTINGS ARE O.K. ?
NO
RESPONSE PAGE WITH COMPATIBILITY INFORMATION
YES
802
806
ACCESS AUTOMETHODS FROM
DOWNLOAD SEIM
NETWORK INSTRUCTIONS
XML PARSER
INFORMATION ON WHERE DF IS
808
APPLICATION SERVER
804
COMPUTER-BASED DEVICE
FORMATTED DIRECTIVE FILE
NETWORK INSTRUCTIONS
USER INTERFACE
805
810
EXECUTING CLIENT SIDE ROUTINES
CHOOSE ACTIONS
BDS
DIRECTIVE FILE
FORMAT MANAGEMENT MODULE
FORMATTED DIRECTIVE FILE

Figure 8

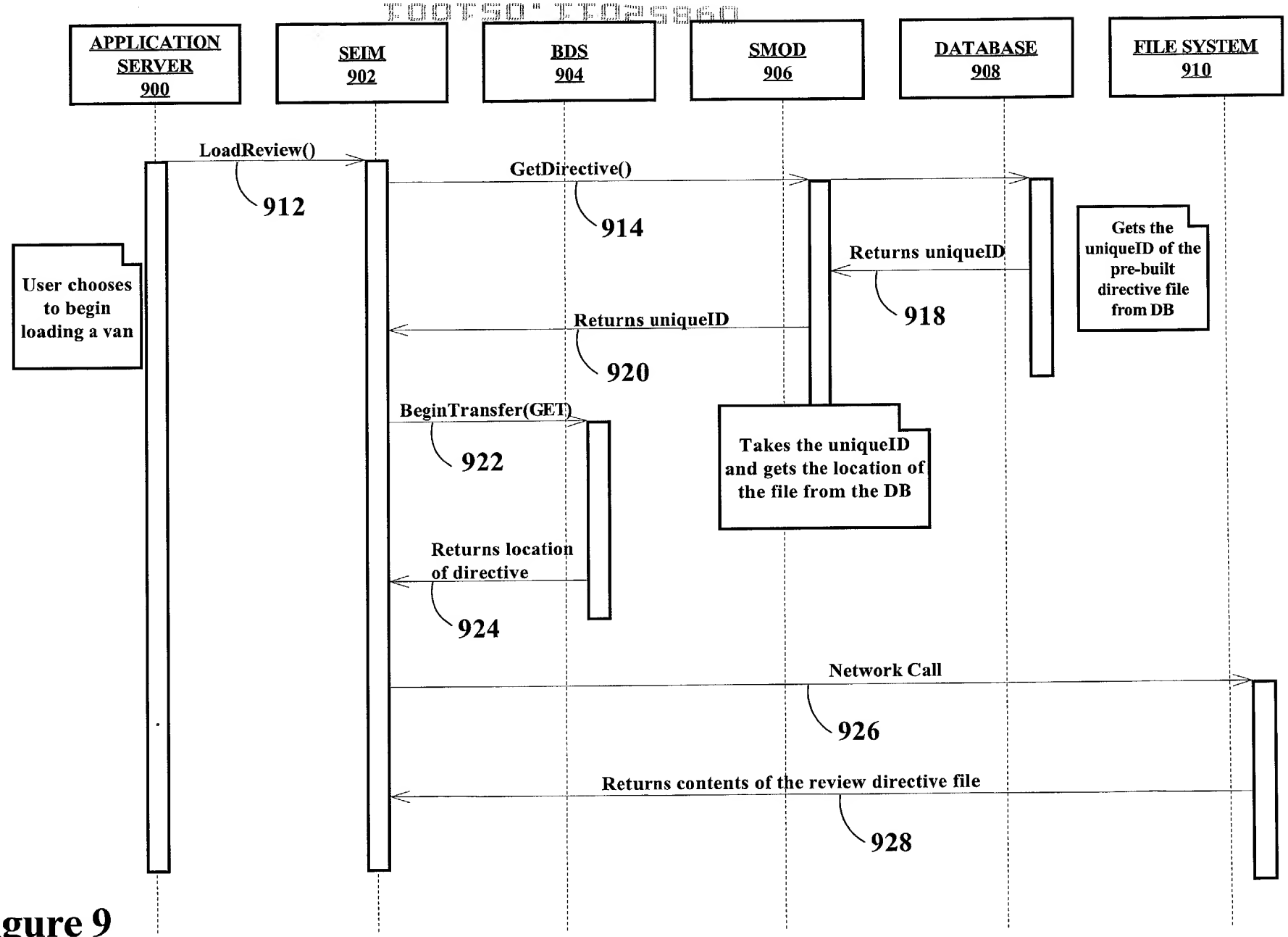

APPLICATION SERVER 900
SEIM 902
BDS 904
SMOD 906
DATABASE 908
FILE SYSTEM 910
LoadReview()
912
GetDirective()
914
Gets the uniqueID of the pre-built directive file from DB
Returns uniqueID
918
User chooses to begin loading a van
Returns uniqueID
920
BeginTransfer(GET)
922
Takes the uniqueID and gets the location of the file from the DB
Returns location of directive
924
Network Call
926
Returns contents of the review directive file
928

Figure 9

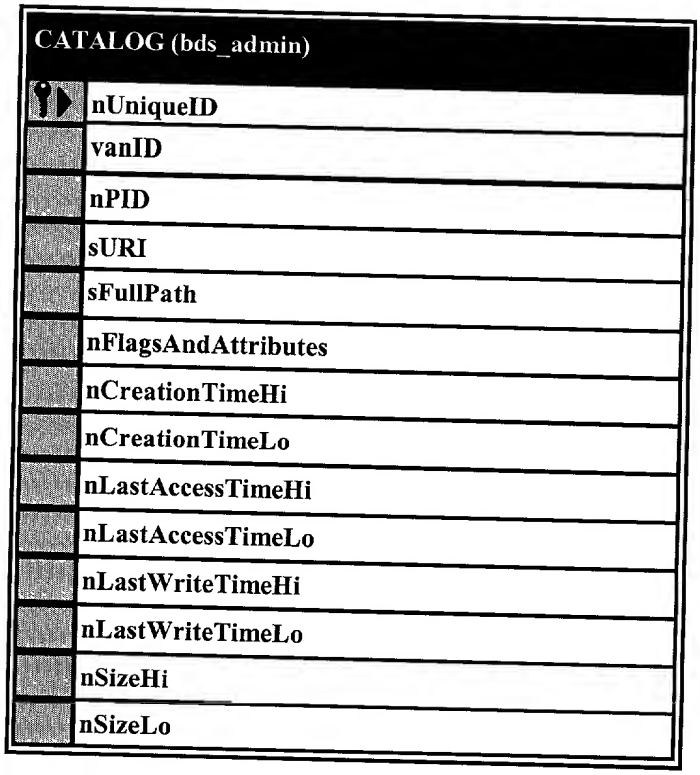

CATALOG (bds_admin)
nUniqueID
vanID
nPID
sURI
sFullPath
nFlagsAndAttributes
nCreationTimeHi
nCreationTimeLo
nLastAccessTimeHi
nLastAccessTimeLo
nLastWriteTimeHi
nLastWriteTimeLo
nSizeHi
nSizeLo

Figure 10

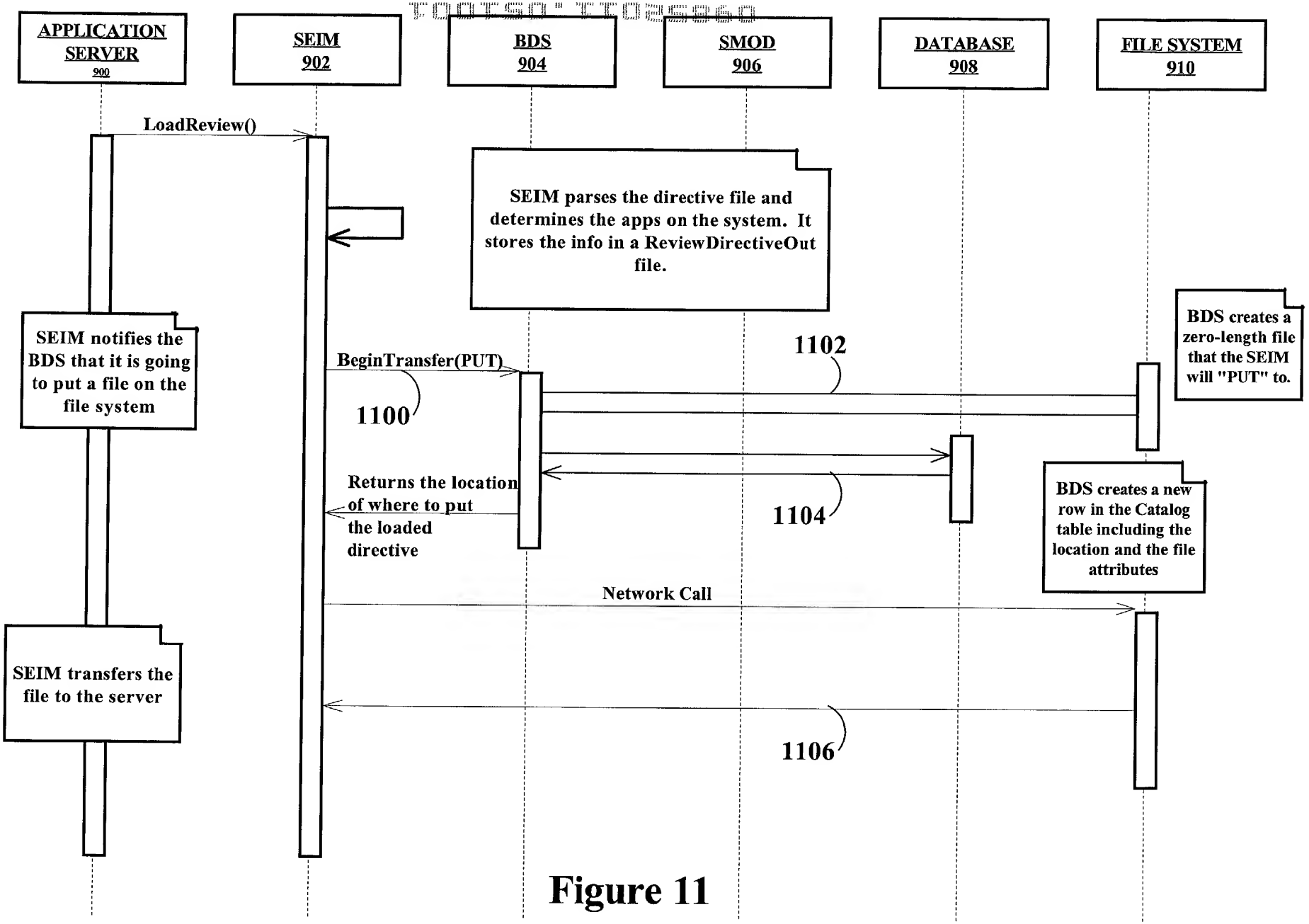

APPLICATION SERVER
900
SEIM
902
BDS
904
SMOD
906
DATABASE
908
FILE SYSTEM
910
LoadReview()
SEIM parses the directive file and determines the apps on the system. It stores the info in a ReviewDirectiveOut file.
SEIM notifies the BDS that it is going to put a file on the file system
BeginTransfer(PUT)
1100
1102
BDS creates a zero-length file that the SEIM will "PUT" to.
Returns the location of where to put the loaded directive
1104
BDS creates a new row in the Catalog table including the location and the file attributes
Network Call
SEIM transfers the file to the server
1106

Figure 11

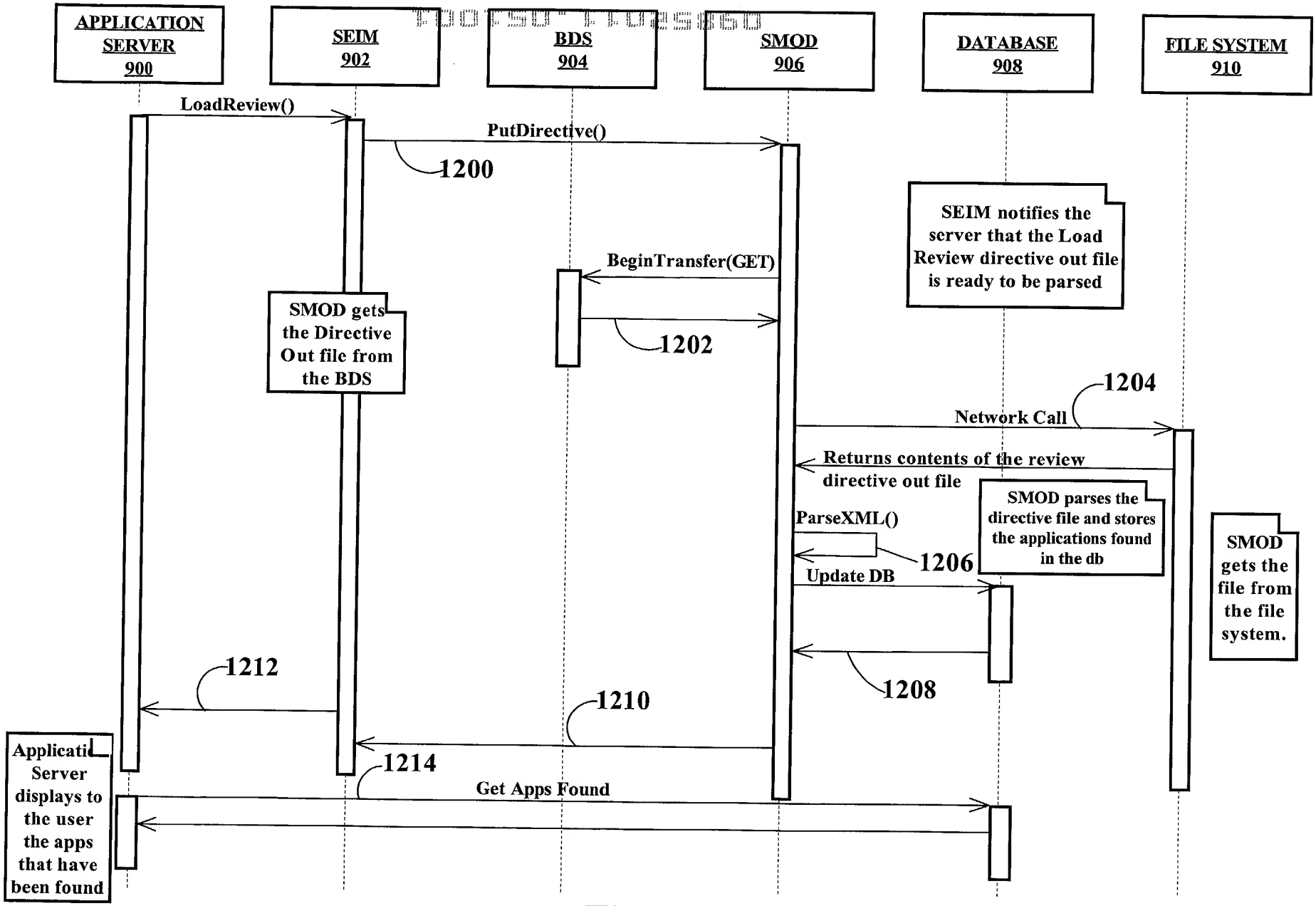

APPLICATION SERVER 900
SEIM 902
BDS 904
SMOD 906
DATABASE 908
FILE SYSTEM 910
LoadReview()
PutDirective()
1200
SEIM notifies the server that the Load Review directive out file is ready to be parsed
BeginTransfer(GET)
SMOD gets the Directive Out file from the BDS
1202
1204
Network Call
Returns contents of the review directive out file
SMOD parses the directive file and stores the applications found in the db
ParseXML()
1206
Update DB
SMOD gets the file from the file system.
1208
1212
1210
Applicati Server displays to the user the apps that have been found
1214
Get Apps Found

Figure 12

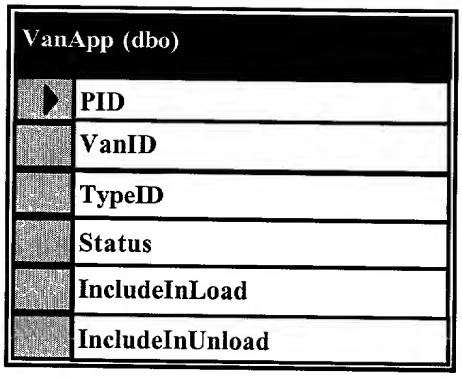

VanApp (dbo)
PID
VanID
TypeID
Status
IncludeInLoad
IncludeInUnload

Figure 13

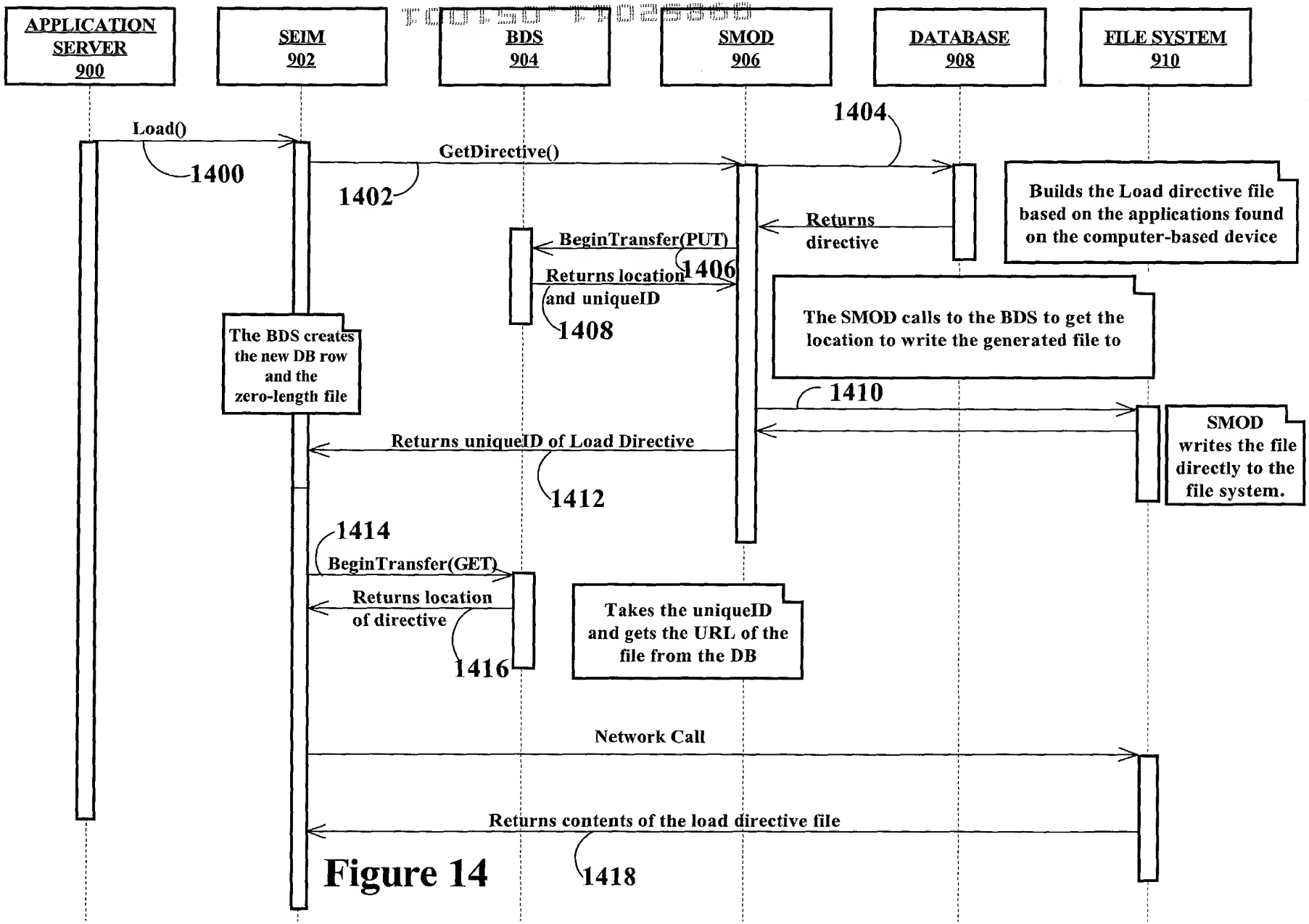

APPLICATION SERVER 900
SEIM 902
BDS 904
SMOD 906
DATABASE 908
FILE SYSTEM 910
Load()
1400
GetDirective()
1402
1404
Builds the Load directive file based on the applications found on the computer-based device
Returns directive
BeginTransfer(PUT)
Returns location and uniqueID
1406
1408
The BDS creates the new DB row and the zero-length file
The SMOD calls to the BDS to get the location to write the generated file to
1410
SMOD writes the file directly to the file system.
Returns uniqueID of Load Directive
1412
1414
BeginTransfer(GET)
Returns location of directive
1416
Takes the uniqueID and gets the URL of the file from the DB
Network Call
Returns contents of the load directive file
1418

Figure 14

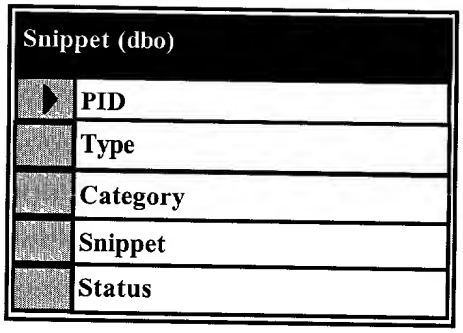


Figure 15

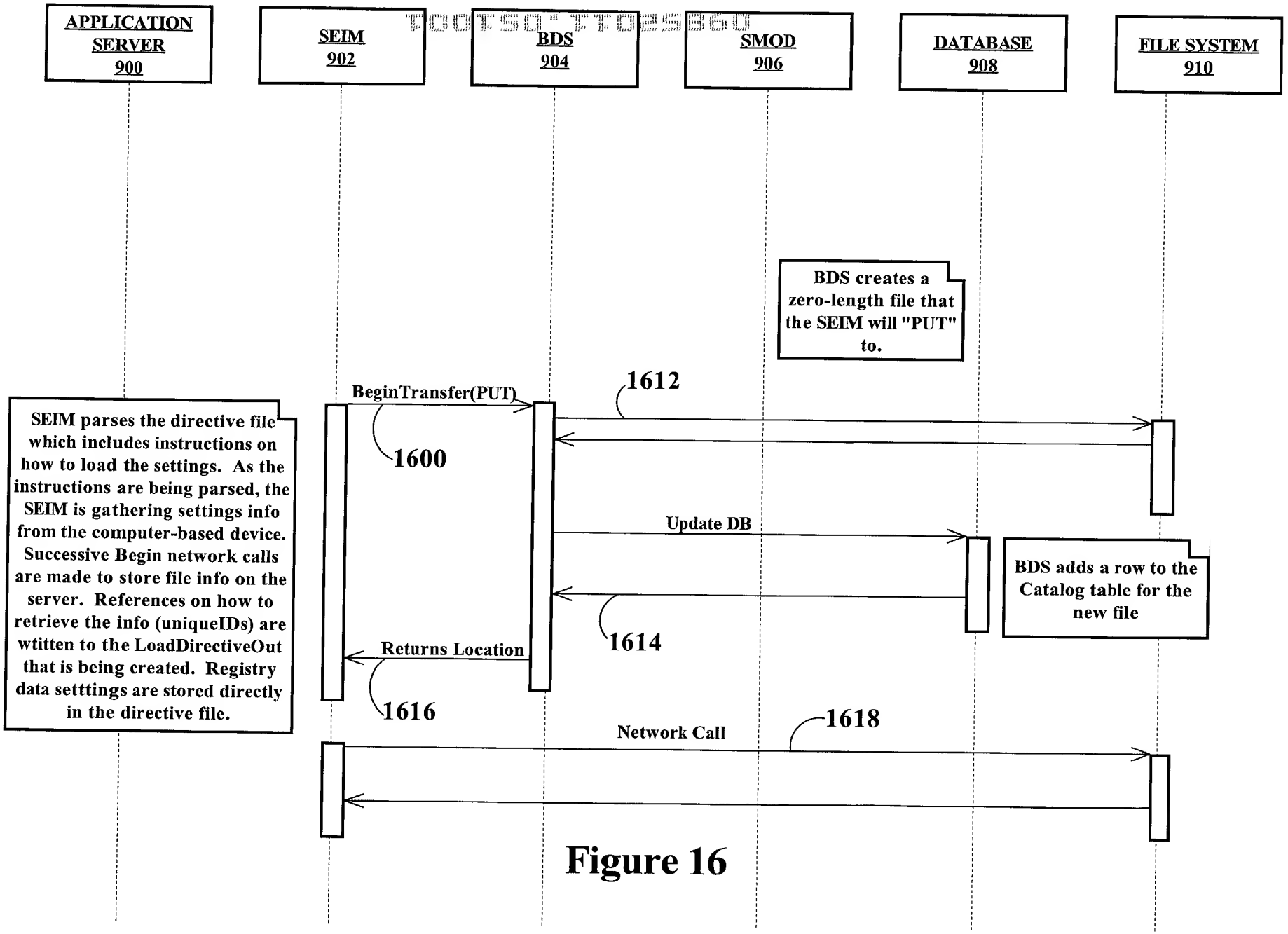

APPLICATION SERVER 900
SEIM 902
BDS 904
SMOD 906
DATABASE 908
FILE SYSTEM 910
BDS creates a zero-length file that the SEIM will "PUT" to.
SEIM parses the directive file which includes instructions on how to load the settings. As the instructions are being parsed, the SEIM is gathering settings info from the computer-based device. Successive Begin network calls are made to store file info on the server. References on how to retrieve the info (uniqueIDs) are wtitten to the LoadDirectiveOut that is being created. Registry data setttings are stored directly in the directive file.
BeginTransfer(PUT)
1600
1612
Update DB
BDS adds a row to the Catalog table for the new file
1614
Returns Location
1616
Network Call
1618

Figure 16

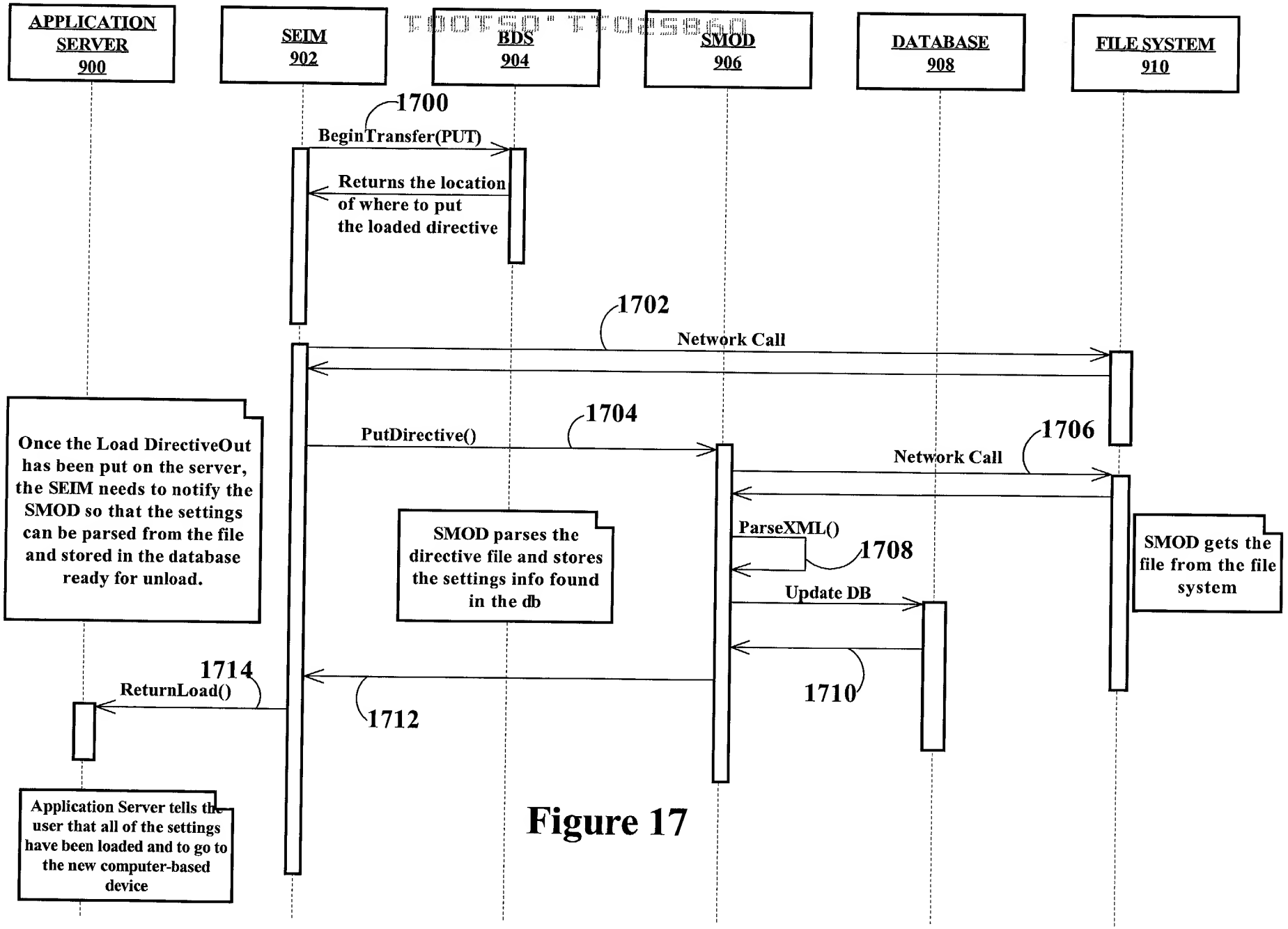

APPLICATION SERVER 900
SEIM 902
BDS 904
SMOD 906
DATABASE 908
FILE SYSTEM 910
1700
BeginTransfer(PUT)
Returns the location of where to put the loaded directive
1702
Network Call
Once the Load DirectiveOut has been put on the server, the SEIM needs to notify the SMOD so that the settings can be parsed from the file and stored in the database ready for unload.
1704
PutDirective()
1706
Network Call
SMOD parses the directive file and stores the settings info found in the db
ParseXML()
1708
SMOD gets the file from the file system
Update DB
1710
1712
1714
ReturnLoad()
Application Server tells the user that all of the settings have been loaded and to go to the new computer-based device

Figure 17

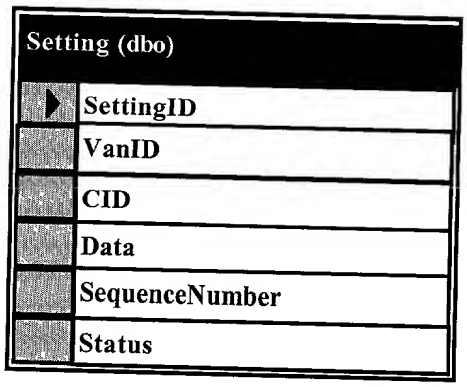
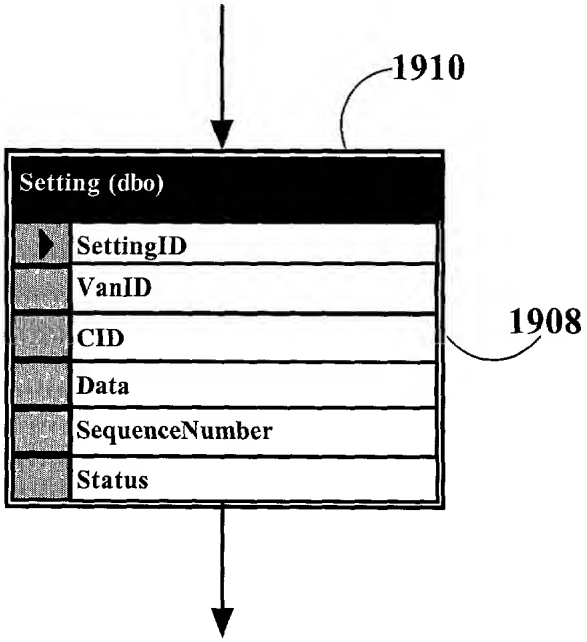

Setting (dbo)
SettingID
VanID
CID
Data
SequenceNumber
Status

Figure 18

<StoreFileAtValue>HKCU\Software\Microsoft\WAB\WAB4\Wab File Name\
<CID>20</CID> 1906
</StoreFileAtValue>

1900



<StoreFileAtValue>HKCU\Software\Microsoft\WAB\WAB4\Wab File Name\
<CID>20</CID>
<Value>80596</Value> 1904
</StoreFileAtValue>

1902

Figure 19

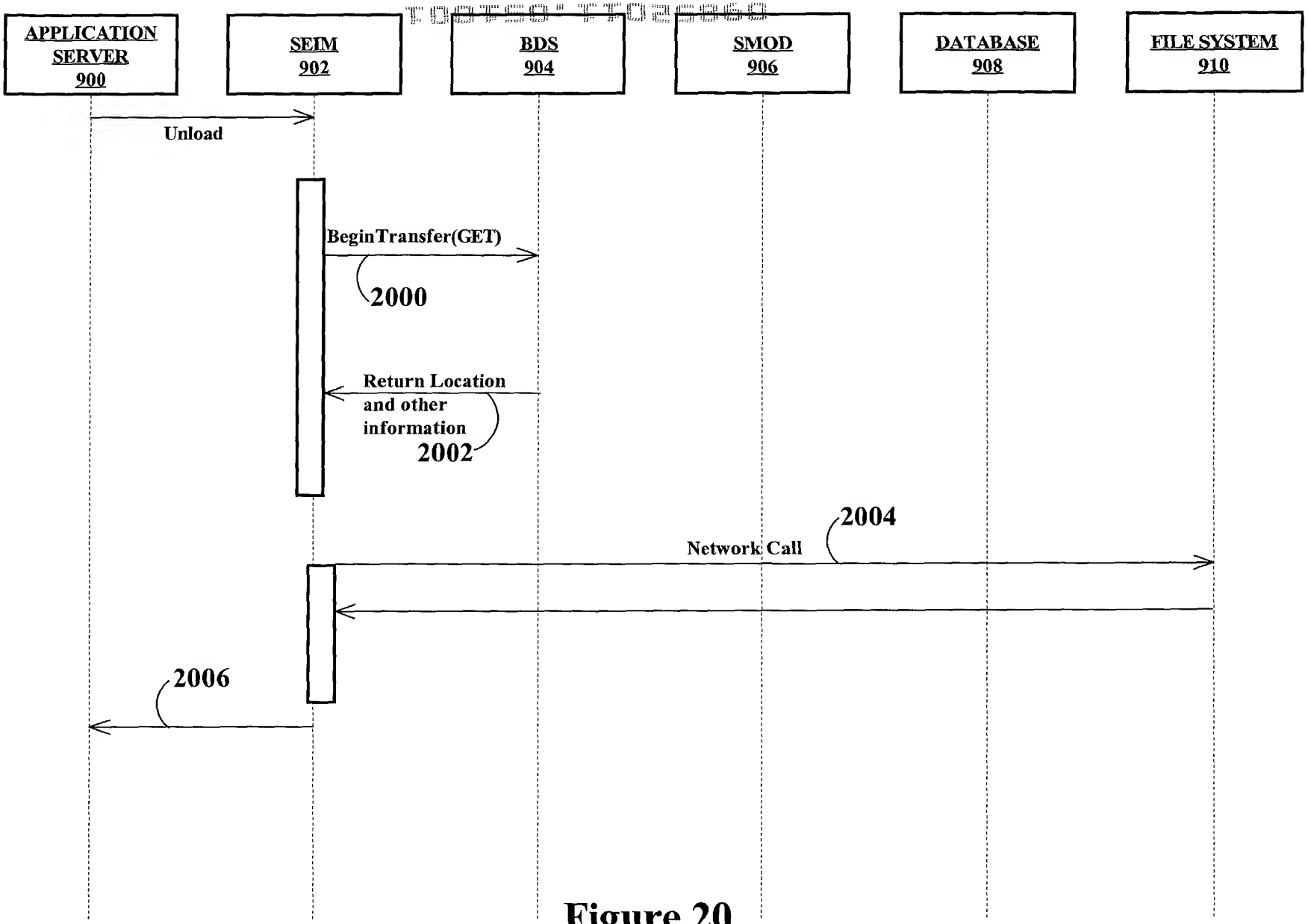

APPLICATION SERVER 900
SEIM 902
BDS 904
SMOD 906
DATABASE 908
FILE SYSTEM 910
Unload
BeginTransfer(GET)
2000
Return Location and other information
2002
2004
Network Call
2006

Figure 20